Author Index

Amara, M.
— , Bettahar, M., Gengembre, L. and Olivier, D.
Preparation, spectroscopic characterization and stability of silica-supported copper (I) species 153
Baiker, A.
— , Dollenmeier, P., Glinski, M. and Reller, A.
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351
Baiker, A.
— , Dollenmeier, P., Glinski, M. and Reller, A.
Selective catalytic reduction of nitric oxide with ammonia. II. Monolayers of vanadia immobilized on titania-silica mixed gels 365
Bennet, C.O., see Bertucco, A. 329
Beránek, L., see Stuchlý, V. 23, 35
Bertucco, A.
— and Bennett, C.O.
Characterization of a silica supported rhodium catalyst via hydrogen chemisorption, temperature-programmed desorption and isotopic exchange measurements 329
Bettahar, M., see Amara M. 153
Boitiaux, J.P.
— , Cosyns, J. and Robert E.
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193
Bond, G.C.
— and Gelsthorpe, M.R.
A study of EUROPT-1 by temperature-programmed reduction 169
Brozyna, K.
— and Dziewiecki, Z.
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211
Cant, N.W., see Kohler, M.A. 237
Choudary, B.M.
— and Kumar, K.R.
Syntheses of interlamellar montmorillonite-diphenylphosphine triosmium cluster complexes 177
Cornelius, E.B., see Palmer, J.L. 217
Cosyns, J., see Boitiaux, J.P. 193
Cunningham, J.
— , McNamara, D., Fierro, J.L.G. and O'Brien, S.
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423-523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
De-An, C., see Yu-Hua, D. 77
Del Piero, G., see Villa, P. 47
Dollenmeier, P., see Baiker, A. 351, 365
Doyemet, J.Y., see Gnep, N.S. 93
Dziewiecki, Z., see Brozyna, K. 211
Fasman, A.B., see Maksimova, N.A. 59
Fetting, F., see Herrmann, C. 299
Fetting, F., see Haas, J. 311
Fierro, J.L.G., see Cunningham, J. 381
Garagiola, F., see Villa, P. 47
Gelsthorpe, M.R., see Bond, G.C. 169
Gengembre, L., see Amara, M. 153
Gerhard, W., see Haas, J. 311
Glinski, M., see Baiker, A. 351, 365
Gnep, N.S.
— , Doyemet, J.Y., Seco, A.M., Ribeiro, F.R. and Guisnet, M.
Conversion of light alkanes into aromatic hydrocarbons: 1-dehydrocyclodimerization of propane on PtHZSM-5 catalysts 93
Grondelle, J. van, see Kip, B.J. 109
Guisnet, M., see Gnep, N.S. 93
Haas, J.
— , Fetting, F., Plog, C., Kerfin, W., Gerhard, W. and Roth, G.
Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite 311
Haas, J., see Herrmann, C. 299
Hermann, C.
— , Haas, J. and Fetting, F.
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Hermans, E.G.F., see Kip, B.J. 109, 141
Hermans, N.M.A., see Kip, B.J. 109

Hightower, J.W., see Parulekar, V.N. 249, 263
Ishibashi, Y., see Shimazu, S. 279
Ivanov, V.Sh., see Maksimova, N.A. 59
Jik, K.J.
— , Uchytil, J. and Kraus, M.
Hydrodealkylation of alkyl benzenes on a nickel-molybdenum/alumina catalyst 289
Kerfin, W., see Haas, J. 311
Khi-Rui, T., see Yu-Hua, D. 77
Kip, B.J.
— , Hermans, E.G.F., Van Wolput, J.H.M.C., Hermans, N.M.A., Van Grondelle, J. and Prins, R.
Hydrogenation of carbon monoxide over rhodium/silica catalysts promoted with molybdenum oxide and thorium oxide 109
Kip, B.J.
— , Hermans, E.G.F. and Prins, R.
Carbon monoxide hydrogenation over alkali promoted Rh/Al_2O_3, $Rh/V_2O_3/SiO_2$ and $Rh/ThO_2/SiO_2$ 141
Kiyozumi, Y., see Suzuki, K. 401
Kohler, M.A.
— , Lee, J.C., Wainwright, M.S., Trimm, D.L. and Cant, N.W.
Hydrolysis of acrylonitrile to acrylamide over an ion-exchanged copper on silica catalyst 237
Kraus, M., see Jik, K.J. 289
Kumar, K.R., see Choudary, B.M. 177
Lee, J.C., see Kohler, M.A. 237
Lietti, L., see Villa, P. 47
Maksimova, N.A.
— , Vishnevetskii, E.A., Ivanov, V. Sh. and Fasman, A.B.
Partially leached stationary Raney catalysts: active surface genesis 59
Matsuzaki, K., see Suzuki, K. 401
McNamara, D., see Cunningham, J. 381
Miura, M., see Shimazu, S. 279
Mologni, G., see Villa, P. 47
O'Brien, S., see Cunningham, J. 381
Olivier, D., see Amara, M. 153
Palmer, J.L.
— and Cornelius, E.B.
Separating equilibrium cracking catalyst into activity graded fractions 217
Parulekar, V.N.
— and Hightower, J.W.
Physical characterization of a platinum-rhenium/pillared clay mineral catalyst 263
Parulekar, V.N.
— and Hightower, J.W.
Hydroisomerization of n-paraffins on a platinum-rhenium/pillared clay mineral catalyst 249
Pasquon, I., see Villa, P. 47
Plog, C., see Haas, J. 311
Prins, R., see Kip, B.J. 109, 141
Reller, A., see Baiker, A. 351, 365
Ribeiro, F.R., see Gnep, N.S. 93
Robert, E., see Boitiaux, J.P. 193
Roth, G., see Haas, J. 311
Seco, A.M., see Gnep, N.S. 93
Shimazu, S.
— , Ishibashi, Y., Miura, M. and Uematsu, T.
Methanol carbonylation catalyzed by polymer-supported rhodium complexes 279
Shin, S., see Suzuki, K. 401
Stuchlý, V.
— , Zahradníková, H. and Beránek, L.
Activation of a hydrorefining cobalt-molybdenum catalyst. I. Formation of surface groups and sites during activation 23
Stuchlý, V.
— and Beránek, L.
Activation of a hydrorefining cobalt-molybdenum catalyst. II. Development of polyfunctional activity of the catalyst during activation 35
Suzuki, K.
— , Kiyozumi, Y., Matsuzaki, K. and Shin, S.
Influence of the synthesis conditions of H-ZSM-5 on its physical properties and catalytic activity in methanol conversion: the water content of the reaction mixture 401
Tomsett, A.D.
— , Young, D.J. and Wainwright, M.S.
Modelling the development of pore structure during the preparation of Raney copper catalysts for fixed bed operation 321
Trimm, D.L., see Kohler, M.A. 237
Tronconi, E., see Villa, P. 47
Uchytil, J., see Jik, K.J. 289
Uematsu, T., see Shimazu, S. 279
Villa, P.
— , Del Piero, G., Lietti, L., Garagiola, F., Mologni, G., Tronconi, E. and Pasquon, I.

Synthesis of alcohols from carbon oxides and hydrogen. VI. Zn and Ti oxides: preparation and catalytic activity 47
Van Grondelle, J., see Kip, B.J. 109
Van Wolput, J.H.M.C., see Kip, B.J. 109
Vishnevetskii, E.A., see Maksimova, N.A. 59
Wainwright, M.S., see Kohler, M.A. 237
Wainwright, M.S., see Tomsett, A.D. 321
Wolput, J.H.M.C. van, see Kip, B.J. 109
Young, D.J., see Tomsett, A.D. 321
Yu-Hua, D.
— , De-An, C. and Khi-Rui, T.
Promoter action of rare earth oxides in rhodium/silica catalysts for the conversion of syngas to ethanol 77
Zabrzeski, J.
— and Zmyślony, R.
Experimental description of the rate of platinum and rhodium losses in the process of ammonia oxidation 13
Zahradníková, H., see Stuchlý, V. 23
Zieliński, J.
Reaction of nitrous oxide with a nickel surface 1
Zmyślony, R., see Zabrzeski, J. 13

Subject Index

Acetone hydrogenation
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381

Acrylonitrile hydrolysis
Hydrolysis of acrylonitrile to acrylamide over an ion-exchanged copper on silica catalyst 237

Active surface genesis
Partially leached stationary Raney catalysts: active surface genesis 59

Adsorption
Characterization of a silica supported rhodium catalyst via hydrogen chemisorption, temperature programmed desorption and isotopic exchange measurements 329

Adsorption
Hydrogenation of carbon monoxide over rhodium/silica catalysts promoted with molybdenum oxide and thorium oxide 109

Adsorption
Reaction of nitrous oxide with a nickel surface 1

Ageing
Experimental description of the rate of platinum and rhodium losses in the process of ammonia oxidation 13

Ageing
Hydrolysis of acrylonitrile to acrylamide over an ion-exchanged copper on silica catalyst 237

Ageing
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381

Alcohol synthesis
Synthesis of alcohols from carbon oxides and hydrogen. VI. Zn and Ti oxides: preparation and catalytic activity 47

Alkylbenzene hydrodealkylation
Hydrodealkylation of alkylbenzenes on a nickel–molybdenum/alumina catalyst 289

Amination
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299

Ammonia oxidation
Experimental description of the rate of platinum and rhodium losses in the process of ammonia oxidation 13

Brønsted acid
Physical characterization of a platinum–rhenium/pillared clay mineral catalyst 263

Brønsted acid
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211

Butadiene hydrogenation
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193

Butene hydrogenation
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193

Butyne hydrogenation
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene 1,3-butadiene and 1-butyne using a single reaction scheme 193

Carbon monoxide hydrogenation
Carbon monoxide hydrogenation over alkali-promoted Rh/Al_2O_3, $Rh/V_2O_3/SiO_2$ and $Rh/ThO_2/SiO_2$ 141

Carbon monoxide hydrogenation
Hydrogenation of carbon monoxide over

rhodium/silica catalysts promoted with molybdenum oxide and thorium oxide 109
Carbon monoxide hydrogenation
Preparation, spectroscopic characterization and stability of silica-supported copper(I) species 153
Carbon monoxide hydrogenation
Promoter action of rare earth oxides in rhodium/silica catalysts for the conversion of syngas to ethanol 77
Carbon monoxide hydrogenation
Synthesis of alcohols from carbon oxides and hydrogen. VI. Zn and Ti oxides: preparation and catalytic activity 47
Catalyst characterization
Activation of a hydrorefining cobalt–molybdenum catalyst. I. Formation of surface groups and sites during activation 23
Catalyst characterization
Activation of a hydrorefining cobalt–molybdenum catalyst. II. Development of polyfunctional activity of the catalyst during activation 35
Catalyst characterization
A study of EUROPT-1 by temperature-programmed reduction 169
Catalyst characterization
Characterization of a silica supported rhodium catalyst via hydrogen chemisorption, temperature programmed desorption and isotopic exchange measurments 329
Catalyst characterization
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Catalyst characterization
Experimental description of the rate of platinum and rhodium losses in the process of ammonia oxidation 13
Catalyst characterization
Hydrogenation of carbon monoxide over rhodium/silica catalysts promoted with molybdenum oxide and thorium oxide 109
Catalyst characterization
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193
Catalyst characterization
Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite 311
Catalyst characterization
Methanol carbonylation catalyzed by polymer-supported rhodium complexes 279
Catalyst characterization
Modelling the development of pore structure during the preparation of Raney copper catalysts for fixed bed operation 321
Catalyst characterization
Physical characterization of a platinum–rhenium/pillared clay mineral catalyst 263
Catalyst characterization
Preparation, spectroscopic characterization and stability of silica-supported copper(I) species 153
Catalyst characterization
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211
Catalyst characterization
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351
Catalyst characterization
Selective catalytic reduction of nitric oxide with ammonia. II. Monolayers of vanadia immobilized on titania–silica mixed gels 365
Catalyst characterization
Synthesis of interlamellar montmorillonitediphenylphosphine triosmium cluster complexes 177
Catalyst preparation
Activation of a hydrorefining cobalt–molybdenum catalyst. I. Formation of surface groups and sites during activation 23
Catalyst preparation
Activation of a hydrorefining cobalt–molybdenum catalyst. II. Develop-

ment of polyfunctional activity of the catalyst during activation 35
Catalyst preparation
A study of EUROPT-1 by temperature-programmed reduction 169
Catalyst preparation
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Catalyst preparation
Hydroisomerization of n-paraffins on a platinum–rhenium/pillared clay mineral catalyst 249
Catalyst preparation
Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite 311
Catalyst preparation
Influence of the synthesis conditions of H-ZSM-5 on its physical properties and catalytic activity in methanol conversion: the water content of the reaction mixture 401
Catalyst preparation
Methanol carbonylation catalyzed by polymer-supported rhodium complexes 279
Catalyst preparation
Modelling the development of pore structure during the preparation of Raney copper catalysts for fixed bed operation 321
Catalyst preparation
Physical characterization of a platinum–rhenium/pillared clay mineral catalyst 263
Catalyst preparation
Preparation, spectroscopic characterization and stability of silica-supported copper(I) species 153
Catalyst preparation
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211
Catalyst preparation
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351
Catalyst preparation
Selective catalytic reduction of nitric oxide with ammonia. II. Monolayers of vanadia immobilized on titania–silica mixed gels 365
Catalyst preparation
Synthesis of alcohols from carbon oxides and hydrogen. VI. Zn and Ti oxides: preparation and catalytic activity 47
Catalyst preparation
Synthesis of interlamellar montmorillonitediphenylphosphine triosmium cluster complexes 177
Cobalt–molybdenum/alumina
Activation of a hydrorefining cobalt–molybdenum catalyst. II. Development of polyfunctional activity of the catalyst during activation 35
Cobalt–molybdenum/ammonia
Activation of a hydrorefining cobalt–molybdenum catalyst. I. Formation of surface groups and sites during activation 23
Coke formation
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Coke formation
Influence of the synthesis conditions of H-ZSM-5 on its physical properties and catalytic activity in methanol conversion: the water content of the reaction mixture 401
Coke formation
Separating equilibrium cracking catalyst into activity graded fractions 217
Coke formation
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
Copper
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
Copper/silica
Hydrolysis of acrylonitrile to acrylamide over an ion-exchanged copper on silica catalyst 237
Copper/silica
Preparation, spectroscopic characterization and stability of silica-supported copper(I) species 153

Cracking
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Cracking
Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite 311
Cracking catalysts
Separating equilibrium cracking catalyst into activity graded fractions 217
Crystal size
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Cupric oxide
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
Cuprous oxide
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
Deactivation
Hydrolysis of acrylonitrile to acrylamide over an ion-exchanged copper on silica catalysts 237
Decomposition
Reaction of nitrous oxide with a nickel surface 1
Dehydrocyclodimerization
Conversion of light alkanes into aromatic hydrocarbons: 1-dehydrocyclodimerization of propane on PtHZSM-5 catalysts 93
Dehydrogenation
Activation of a hydrorefining cobalt–molybdenum catalyst. II. Development of polyfunctional activity of the catalyst during activation 35
Dehydrogenation
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211
Desulphurization
Activation of a hydrorefining cobalt–molybdenum catalyst. II. Development of polyfunctional activity of the catalyst during activation 35
Ethanol synthesis
Promoter action of rare earth oxides in rhodium/silica catalysts for the conversion of syngas to ethanol 77
Ethylbenzene Oxydehydrogenation
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211
Fluid catalytic cracking
Separating equilibrium cracking catalyst into activity graded fractions 217
Hafnium
Partially leached stationary Raney catalysts: active surface genesis 59
Heptane hydroisomerization
Hydroisomerization of n-paraffins on a platinum–rhenium/pillared clay mineral catalyst 249
Hexane hydroisomerization
Hydroisomerization of n-paraffins on a platinum–rhenium/pillared clay mineral catalyst 249
Hexene isomerization
Synthesis of interlamellar montmorillonitediphenylphosphine triosmium cluster complexes 177
Hydrodealkylation
Hydrodealkylation of alkylbenzenes on a nickel–molybdenum/alumina catalyst 289
Hydrogenation
Activation of a hydrorefining cobalt–molybdenum catalyst. II. Development of polyfunctional activity of the catalyst during activation 35
Hydrogenation
Carbon monoxide hydrogenation over alkali-promoted Rh/Al_2O_3, $Rh/V_2O_3/SiO_2$ and $Rh/ThO_2/SiO_2$ 141
Hydrogenation
Hydrogenation of carbon monoxide over rhodium/silica catalysts promoted with molybdenum oxide and thorium oxide 109
Hydrogenation
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hy-

drogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193
Hydrogenation
Partially leached stationary Raney catalysts: active surface genesis 59
Hydrogenation
Preparation, spectroscopic characterization and stability of silica-supported copper(I) species 153
Hydrogenation
Promoter action of rare earth oxides in rhodium/silica catalysts for the conversion of syngas to ethanol 77
Hydrogenation
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
Hydrogenation
Synthesis of alcohols from carbon oxides and hydrogen. VI. Zn and Ti oxides: preparation and catalytic activity 47
Hydroisomerization
Hydroisomerization of n-paraffins on a platinum–rhenium/pillared clay mineral catalyst 249
Hydrorefining catalysts
Activation of a hydrorefining cobalt–molybdenum catalyst. I. Formation of surface groups and sites during activation 23
Hydrothermal treatment
Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite 311
Isomerization
Activation of a hydrorefining cobalt–molybdenum catalyst. II. Development of polyfunctional activity of the catalyst during activation 35
Isomerization
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Isomerization
Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite 311
Isomerization
Synthesis of interlamellar montmorillonitediphenylphosphine triosmium cluster complexes 177
Isotopic exchange
Characterization of a silica supported rhodium catalyst via hydrogen chemisorption, temperature programmed desorption and isotopic exchange measurements 329
Kinetics
Conversion of light alkanes into aromatic hydrocarbons: 1-dehydrocyclodimerization of propane on PtHZSM-5 catalysts 93
Kinetics
Experimental description of the rate of platinum and rhodium losses in the process of ammonia oxidation 13
Kinetics
Hydrodealkylation of alkylbenzenes on a nickel–molybdenum/alumina catalyst 289
Kinetics
Hydrolysis of acrylonitrile to acrylamide over an ion-exchanged copper on silica catalyst 237
Kinetics
Reaction of nitrous oxide with a nickel surface 1
Kinetics
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351
Kinetics
Selective catalytic reduction of nitric oxide with ammonia. II. Monolayers of vanadia immobilized on titania–silica mixed gels 365
Kinetics
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
Lewis acid
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211
Methanol carbonylation
Methanol carbonylation catalyzed by

polymer-supported rhodium complexes 279

Methanol conversion
Influence of the synthesis conditions of H-ZSM-5 on its physical properties and catalytic activity in methanol conversion: the water content of the reaction mixture 401

Methanol synthesis
Carbon monoxide hydrogenation over alkali-promoted Rh/Al_2O_3, $Rh/V_2O_3/SiO_2$ and $Rh/ThO_2/SiO_2$ 141

Methanol synthesis
Preparation, spectroscopic characterization and stability of silica-supported copper(I) species 153

Monolayer impregnation
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351

Monolayer impregnation
Selective catalytic reduction of nitric oxide with ammonia. II. Monolayers of vanadia immobilized on titania-silica mixed gels 365

Montmorillonite
Synthesis of interlamellar montmorillonitediphenylphosphine triosmium cluster complexes 177

Mordenite
Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite 311

Multilayer impregnation
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351

Nickel
Partially leached stationary Raney catalysts: active surface genesis 59

Nickel
Reaction of nitrous oxide with a nickel surface 1

Nickel-molybdenum/alumina
Hydrodealkylation of alkylbenzenes on a nickel-molybdenum/alumina catalyst 289

Nickel phosphate
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211

Nitric oxide reduction
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351

Nitric oxide reduction
Selective catalytic reduction of nitric oxide with ammonia. II. Monolayers of vanadia immobilized on titania-silica mixed gels 365

Nitrous oxide decomposition
Reaction of nitrous oxide with a nickel surface 1

Osmium
Synthesis of interlamellar montmorillonitediphenylphosphine triosmium cluster complexes 177

Oxidation
Experimental description of the rate of platinum and rhodium losses in the process of ammonia oxidation 13

Oxydehydrogenation
Relationship between the acidity of nickel phosphate (NiP) catalysts and their activity in ethylbenzene oxydehydrogenation 211

Palladium
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193

Pentane hydroisomerization
Hydroisomerization of n-paraffins on a platinum-rhenium/pillared clay mineral catalyst 249

Phase transformation theory
Modelling the development of pore structure during the preparation of Raney copper catalysts for fixed bed operation 321

Pillared clay
Hydroisomerization of n-paraffins on a platinum-rhenium/pillared clay mineral catalyst 249

Pillared clay
Physical characterization of a platinum–rhenium/pillared clay mineral catalyst 263
Platinum
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193
Platinum–HZSM-5
Conversion of light alkanes into aromatic hydrocarbons: 1-dehydrocyclodimerization of propane on PtHZSM-5 catalysts 93
Platinum–rhenium/pillared clay
Hydroisomerization of n-paraffins on a platinum–rhenium/pillared clay mineral catalyst 249
Platinum–rhenium/pillared clay
Physical characterization of a platinum–rhenium/pillared clay mineral catalyst 263
Platinum/silica
A study of EUROPT-1 by temperature-programmed reduction 169
Poisoning
Hydrodealkylation of alkylbenzenes on a nickel–molybdenum/alumina catalyst 289
Poisoning
Hydroisomerization of n-paraffins on a platinum–rhenium/pillared clay mineral catalyst 249
Polymer-supported rhodium
Methanol carbonylation catalyzed by polymer-supported rhodium complexes 279
Pore structure
Modelling the development of pore structure during the preparation of Raney copper catalysts for fixed bed operation 321
Pretreatment
A study of EUROPT-1 by temperature-programmed reduction 169
Propane dehydrocyclodimerization
Conversion of light alkanes into aromatic hydrocarbons: 1-dehydrocyclodimerization of propane on PtHZSM-5 catalysts 93
Raney copper
Modelling the development of pore structure during the preparation of Raney copper catalysts for fixed bed operation 321
Raney nickel
Partially leached stationary Raney catalysts: active surface genesis 59
Reduction
Activation of a hydrorefining cobalt–molybdenum catalyst. I. Formation of surface groups and sites during activation 23
Regeneration
Separating equilibrium cracking catalyst into activity graded fractions 217
Rhodium
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193
Rhodium
Methanol carbonylation catalyzed by polymer-supported rhodium complexes 279
Rhodium-platinum
Experimental description of the rate of platinum and rhodium losses in the process of ammonia oxidation 13
Rhodium/silica
Carbon monoxide hydrogenation over alkali-promoted Rh/Al_2O_3, $Rh/V_2O_3/SiO_2$ and $Rh/ThO_2/SiO_2$ 141
Rhodium/silica
Characterization of a silica supported rhodium catalyst via hydrogen chemisorption, temperature programmed desorption and isotopic exchange measurements 329
Rhodium/silica
Hydrogenation of carbon monoxide over rhodium/silica catalysts promoted with molybdenum oxide and thorium oxide 109
Rhodium/silica
Promoter action of rare earth oxides in

rhodium/silica catalysts for the conversion syngas of ethanol 77
Selectivity
Activation of a hydrorefining cobalt–molybdenum catalyst. II. Development of polyfunctional activity of the catalyst during activation 35
Selectivity
Carbon monoxide hydrogenation over alkali-promoted Rh/Al_2O_3, $Rh/V_2O_3/SiO_2$ and $Rh/ThO_2/SiO_2$ 141
Selectivity
Conversion of light alkanes into aromatic hydrocarbons: 1-dehydrocyclodimerization of propane on PtHZSM-5 catalysts 93
Selectivity
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Selectivity
Hydrogenation of carbon monoxide over rhodium/silica catalysts promoted with molybdenum oxide and thorium oxide 109
Selectivity
Hydrogenation of unsaturated hydrocarbons in liquid phase on palladium, platinum and rhodium catalysts. III. Quantitative selectivity ranking of platinum, palladium and rhodium in the hydrogenation of 1-butene, 1,3-butadiene and 1-butyne using a single reaction scheme 193
Selectivity
Hydroisomerization of n-paraffins on a platinum–rhenium/pillared clay mineral catalyst 249
Selectivity
Influence of the hydrothermal treatment on the catalytic behaviour of mordenite and on the aluminium distribution in the crystallite 311
Selectivity
Methanol carbonylation catalyzed by polymer-supported rhodium complexes 279
Selectivity
Partially leached stationary Raney catalysts: active surface genesis 59
Selectivity
Promoter action of rare earth oxides in rhodium/silica catalysts for the conversion of syngas to ethanol 77
Selectivity
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351
Selectivity
Selective catalytic reduction of nitric oxide with ammonia. II. Monolayers of vanadia immobilized on titania–silica mixed gels 365
Selectivity
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
Selectivity
Synthesis of alcohols from carbon oxides and hydrogen. VI. Zn and Ti oxides: preparation and catalytic activity 47
Separation technique
Separating equilibrium cracking catalyst into activity graded fractions 217
Sintering
Activation of hydrorefining cobalt–molybdenum catalyst. I. Formation of surface groups and sites during activation 23
Sulphidation
Activation of a hydrorefining cobalt–molybdenum catalyst. I. Formation of surface groups and sites during activation 23
Syngas conversion
Carbon monoxide hydrogenation over alkali-promoted Rh/Al_2O_3, $Rh/V_2O_3/SiO_2$ and $Rh/ThO_2/SiO_2$ 141
Syngas conversion
Preparation, spectroscopic characterization and stability of silica-supported copper(I) species 153
Syngas conversion
Promoter action of rare earth oxides in rhodium/silica catalysts for the conversion of syngas to ethanol 77
Temperature-programmed desorption
Characterization of a silica supported rhodium catalyst via hydrogen chemisorption, temperature programmed desorption and isotopic exchange measurements 329

Temperature-programmed reduction
A study of EUROPT-1 by temperature-programmed reduction 169
Temperature-programmed reduction
Hydrogenation of carbon monoxide over rhodium/silica catalysts promoted with molybdenum oxide and thorium oxide 109
Temperature-programmed reduction
Physical characterization of a platinum–rhenium/pillared clay mineral catalyst 263
Temperature-programmed reduction
Surface synergisms between copper and its oxides. II. Hydrogenation of acetone at 423–523 K over unsupported cuprous oxide, copper metal and cupric oxide 381
Vanadia/titania
Selective catalytic reduction of nitric oxide with ammonia. I. Monolayer and multilayers of vanadia supported on titania 351
Vanadia/titania–silica
Selective catalytic reduction on nitric oxide with ammonia. II. Monolayers of vanadia immobilized on titania–silica mixed gels 365
Zeolites
Conversion of light alkanes into aromatic hydrocarbons: 1-dehydrocyclodimerization of propane on PtHZSM-5 catalysts 93
Zeolites
Effect of the crystal size on the activity of ZSM-5 catalysts in various reactions 299
Zeolites
Influence of the synthesis conditions of H-ZSM-5 on its physical properties and catalytic activity in methanol conversion: the water content of the reaction mixture 401
Zeolites
Separating equilibrium cracking catalyst into activity graded fractions 217
Zinc–titanium oxides
Synthesis of alcohols from carbon oxides and hydrogen. VI. Zn and Ti oxides: preparation and catalytic activity 47
Zirconium
Partially leached stationary Raney catalysts: active surface genesis 59